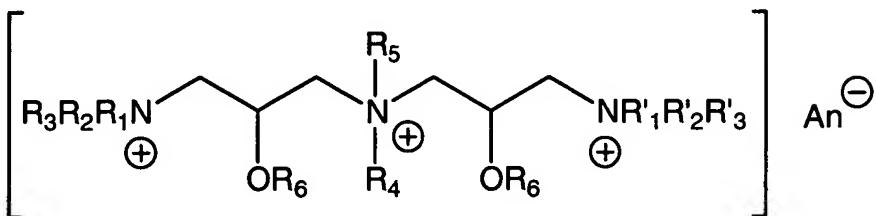
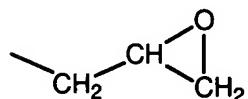


## ABSTRACT OF DISCLOSURE

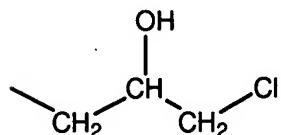
This invention pertains to novel multiple quaternary ammonium salts and their derivatives represented by the formula:



wherein each  $R_1$ ,  $R'_1$ ,  $R_2$ ,  $R'_2$ ,  $R_3$ ,  $R'_3$ ,  $R_4$  or  $R_5$  is independently selected from the group consisting alkyl, aryl, aralkyl and  $-CH_2-CH(OR_6)-CH_2N^+R_1R_2R_3$ ;  
wherein one or more  $R_6$  group is selected from the group consisting of:

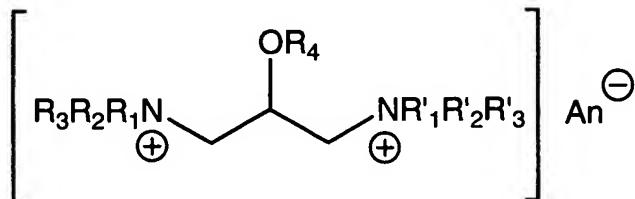


and

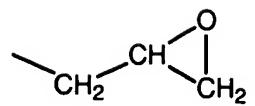


and wherein  $An^-$  is an anion.

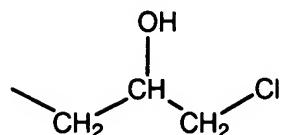
This invention also pertains to novel multiple quaternary ammonium salts and their derivatives represented by the formula:



wherein each  $R_1$ ,  $R'_1$ ,  $R_2$ ,  $R'_2$ ,  $R_3$  or  $R'_3$  group is independently selected from the group consisting of alkyl, aryl, aralkyl and  $-CH_2-CH(OR_4)-CH_2N^+R_1R_2R_3$ ;  
wherein one or more  $R_4$  group is selected from the group consisting of:



and



and wherein  $\text{An}^-$  is an anion.